

A multi-channel, low input capacitance signal probe head has a housing that receives one or more substrates having input signal pads exposed on one end of the substrate. The substrate is positioned in the housing such that the signal contact pads are exposed at an open end of the housing. A removable signal contact holder mounts to the housing and supporting electrically conductive elastomer signal contacts. The holder is disposed over an open end of housing such that the elastomer signal contacts engage the input signal pads. A probe head retention member is provided for securing the multi-channel signal probe head to a device under test.

[illegible]